



LANDON CARTER—THE TECH

The 2.009 Silver Team uses its zipline-based contraption to cross the lilypads for the 2015 2.009 Build Challenge on Killian Court on Friday, October 9.

# Can MIT divest while accepting oil money? An activist weighs in.

## The Tech sits down with a Fossil Free MIT student leader

By Emma Bingham and  
Katherine Nazemi  
STAFF REPORTERS

In anticipation of President L. Rafael Reif's upcoming announcement about MIT's climate action plan, The Tech spoke with Geoffrey Supran, a graduate student in materials science, about his work on the MIT Climate Change Conversation Committee and student group Fossil Free MIT. We asked about his expectations for the announcement, his thoughts around divestment, his own research, and how he became a climate change activist.

**The Tech: What do you hope to see from President Reif's announcement?**

**Supran:** What I hope to see is what dozens of student groups have been calling for now, which is a bold, multifaceted climate action plan. In particular, we're calling for three things: divestment from fossil fuels, reinvestment in campus sustainability, and a reinvention of the approach that MIT takes toward climate change. We anticipate that the president will heed the recommendations of his own committee — of which I was a part — and launch, I hope, the most ambitious, comprehensive, and inclusive climate action plan that any university has ever seen... There is quite a scary lack of awareness as to the political realities of climate change. We feel MIT at the moment is sitting on the sidelines,

watching the greatest catastrophe in human history play out, and we need it to step up to the plate and be the global leader that it has the potential to be.

**The Tech: By political realities do you mean inertia, lack of political action?**

**Supran:** If you look at the scientific literature, you learn that the bottleneck to tackling climate change is no longer technological capacity of policy know-how — it's political will and social will. Right now, MIT pays grad students like me to develop these technologies, but at the same time it's investing hundreds of millions of dollars into an industry whose business

Supran, Page 2

# Hearing procedures to change as reports of sexual assault rise

Increase thought to indicate a larger fraction of assaults are being reported

By Kath Xu  
EXECUTIVE EDITOR

A year after MIT released the results from its first community sexual assault survey, the Institute has implemented many of its accompanying recommendations and has begun launching new initiatives.

The Community Attitudes on Sexual Assault (CASA) survey, spearheaded by Chancellor Cynthia Barnhart PhD '88 and geared toward understanding how sexual assault affects the MIT community, showed that 17 percent of female undergraduate respondents had experienced behaviors defined as sexual assault at MIT. However, only 5 percent of sexually assaulted students said that they had reported their experience to the Institute.

Since the survey was launched in April of 2014, it appears that a greater number of cases have been reported to the Title IX Office, which handles gender discrimination and sexual

misconduct cases, and to Violence Prevention & Response (VPR), an on-campus resource which helps prevent and respond to sexual assaults, among other issues.

The Title IX Office reported a 29 percent increase (69 to 89) in cases from academic years 2013-2014 to 2014-2015, while VPR saw a 53 percent increase (75 to 115) in cases during the same time frame. These figures include any encounters with these offices, and not only those related to sexual assault.

According to the 2015 MIT Police Annual Report, 14 on-campus rapes were reported to the MIT Police in 2014, up from 10 in 2013 and 7 in 2012.

"One clear sign that our focus on education is having an impact is that we are seeing more students than in previous years coming forward to report unwanted sexual behavior," Barnhart told the MIT news office. "We think the increase likely indi-

Sexual assault, Page 10

## IN SHORT

**The Annual Bike Auction** will take place today in the parking lot at 290 Albany St. Cash and check will be accepted. The auction will begin at noon.

**Flu shots will be administered** tomorrow (Friday) in W20.

**ESP Security** is recruiting volunteers to help facilitate Splash the weekend before Thanksgiving. Sign up at <https://esp.mit.edu/security>

**Family weekend** is coming up October 23 - 24.

**The Gordon Engineering Leadership Program's office** will be moving to 35-433 beginning today.

**A carton of milk** at Random Hall turns 21 next Tuesday. Students are reminded not to drink it.

**Send news information and tips to** [news@tech.mit.edu](mailto:news@tech.mit.edu).

## Course 16 alumna named director of MIT Medical

Cecilia Warpinski Stuopis '90 will assume her new role as director of MIT Medical before the end of the year, MIT announced Oct. 13.

"Dr. Stuopis is a respected physician leader and clinician with a strong clinical informatics background and a proven record of success in managing various aspects of a diverse health care organization," Executive Vice President and Treasurer Israel Ruiz wrote in an email to the MIT Community this week.

Stuopis currently serves as vice president at Dartmouth-Hitchcock health system in New Hampshire and works as an adjunct associate professor at Dartmouth.

"I am excited to be returning

to MIT as the medical director for MIT Medical," she told the MIT news office. "I am looking forward to collaborating with the providers, staff, and MIT community at large to improve the health of the entire MIT population in meaningful and measurable ways. Together, we should be able to innovate for the better health of our community — much as MIT is an innovator in education and research."

Stuopis's duties at Medical will include evaluating health care services and assuring compliance.

The appointment is the result of a search which began in

Medical, Page 11



JISOO MIN

The Revere Piano Quartet performed at Killian Hall Oct. 11 with Jin-Kyung Joen on the violin, Ronald Gorevic on the violin and viola, MIT Emerson Instructor Eugene Kim on the cello, and Tae Kim at the piano.

## WOMEN'S TENNIS UNDEFEATED

After a successful regular season, the team will next compete Friday. **SPORTS, p. 12**

## LIQUID ON MY LAPTOP

And lessons learned in a lonely computer lab. **CAMPUS LIFE, p. 5**

## WHAT DO YOU DO FOR FUN?

How one successful MIT applicant responded. **CAMPUS LIFE, p. 5**



## PETER PAN PREQUEL

The screenwriters could have borrowed some creativity from the special effects department. **ARTS, p. 6**

## ISRAEL IS BEING TERRORIZED

And the media is too afraid to say it. **OPINION, p. 4**

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# Supran says the risk to research funding worth it

*Says that fossil fuel companies cite collaboration at MIT when defending their inaction*

Supran, from Page 1

plan is fundamentally incompatible with the science of climate change and has a vested interest in maintaining the status quo.

**The Tech: How can MIT’s involvement complement what’s going on in the political realm?**

**Supran:** This institute wields a megaphone to public and political opinion like no other university in the world. It is the forerunner when it comes to climate science and technology. If we take actions that shout through that megaphone, we can actually shift the sociopolitical landscape and create breathing room for the political leadership and legislation that will be necessary to get meaningful climate actions.

**The Tech: How do you see divestment fitting into what MIT can do?**

**Supran:** It’s aligning our money with our mission and our morals. It’s morally right, but it’s also scientifically consistent. It’s financially prudent, and also politically effective. It’s the political effectiveness that makes it so key. I’ve been working on renewables since I was 16, the whole university is trying to get these technologies out into the world, but we’re basically fighting climate change with one hand — through grad students like me — and feeding it with the other hand by investing in an industry whose bottom line depends on protecting business as usual. We’re funding renewables with one hand, and funding an industry that fights renewables with the other hand.

**The Tech: What’s your perspective on groups like the MIT Energy Initiative that benefit from funding from oil companies?**

**Supran:** I was an Energy Initiative Fellow my first year — my lab gets almost all its money from the oil industry to do solar research. I believe there’s an equal chance that the fossil fuel industry will need to increase its renewables research investments rather than decrease them if MIT shows how seriously it’s committed to climate action.

There’s demonstrable proof for this — when ExxonMobil has refused to take action against climate change, it specifically cited its affiliation with MIT. If in the future, MIT says we’re more serious about taking climate action, [ExxonMobil] is going to have to point to work that it does in places like MIT.

Personally I think it’s a gamble we have to take. There comes a time when moral considerations and the need to protect our generation and future generations have to come before a potential financial risk.

I think it’s also worth mentioning that the call for divestment is not radical at all in that it’s consistent with the science for climate change mitigation. The divestment movement derives from peer-reviewed science.

**The Tech: Do you think MIT should continue to accept research funding from companies like Eni, if the Institute moves forward with divestment?**

**Supran:** Firstly, to be clear, divestment is to do with MIT’s investments, not its research funding. Fossil Free MIT isn’t making any commentary at all on research funding and where it comes from.

Personally, I think doing renewables research using industry funding is totally different to profiting from the fossil fuel industry’s drilling and exploration of hydrocarbons that the world can never safely afford to burn. Clean energy research at places like MIT benefits from the minuscule fraction of fossil fuel money that actually goes toward transforming rather than trashing the planet. So yes, I think that if those companies are willing to part with a tiny bit of their profits — even if only for PR reasons — MIT should take advantage of

it and do as much good with it as possible.

But also remember that some unknown fraction of the fossil fuel industry’s research funding at MIT in fact goes into the development of core fossil fuel development and extraction technologies, not to clean energy. I’d point to a quote from the CEO of Eni, Paolo Scaroni, who said, “Cooperation between MIT and Eni can give us phenomenal results.”...

Again, in no way am I or Fossil Free MIT telling anyone at MIT what they can and can’t research, but I know that a lot of people — myself included — find it very troubling that MIT is on the one hand researching how to dig up more fossil fuels, and on the other how to save the climate that those fossil fuels are wrecking.

Also, there’s clear evidence to show that fossil fuel companies don’t invest in MIT because MIT invests in them. They invest in us because it looks good. By the fossil fuel industry’s own admission, divestment is already working to stigmatize their business practices that are incompatible with the science of climate change mitigation. And there are countless examples that when these companies are worried about their image, they point to the research they fund at places like MIT. So as divestment continues to create the political breathing room for climate leadership and a renewables roll-out, I only expect our clean energy research funding from the fossil fuel industry to grow.

Finally, as I mentioned in our committee’s report, there are clear paths to fossil fuel divestment that would allow MIT to work in good faith with fossil fuel companies to solve this crisis together. If a fossil fuel company demonstrates its seriousness to adapt its business plans to mitigate climate change, MIT need not divest from it. But as of yet, no fossil fuel company anywhere in the world has come close.

**“It’s aligning our money with our mission and our morals. It’s morally right.”**

**The Tech: You mentioned you’re a youth delegate to the UN. You’re part of FFMIT, you’ve written for the Guardian and the Huffington Post. How did you get started?**

**Supran:** Divestment. I got into science and technology when I was a kid, when I had what I still have now, which is this deep belief in the power of science to make the world a better place. But there comes a point where you sit in the lab, and you’re trying to do all this work, and you realize it’s being undermined by the very Institute that’s paying you to do the work.

The most tangible proof that [the divestment movement] is working is students like me. As President Reif mentioned in his commencement speech to the Class of 2015, the Climate Change Conversation simply wouldn’t have happened without divestment. My career, my life trajectory, have completely been changed by divestment.

[Divestment] reframes the climate narrative...All the focus has been on guilt tripping people who have no power, which simply means that the industry on the other end keeps pushing fossil fuels through the pipeline, and we have no alternative. Overwhelmingly, Americans prefer clean energy over fossil fuels, but they just have no choice because they’re stuck in a system dominated by big oil politics in DC...

I was literally just sitting in a lab and being introduced to this idea, and suddenly seeing the bigger picture in which my own research

fits and MIT’s research fits. Within three years, everything’s changed. My entire career has changed. It’s kind of remarkable. The campaign as a whole has gone from a couple college campuses three years ago to 500 around the world. It’s gone from \$13 million divested to \$2.6 trillion — it’s a now-significant portion of global GDP. It’s gone from a bunch of tree-hugging hippies talking to each other to a political reframing.

If you follow climate politics, it’s very quickly changing the entire ball game. You saw that Shell went to the arctic to do drilling research. They pulled out, and everyone knows it’s because of kids like you and me who keep pestering them until it becomes politically untenable for them to continue those business practices.

**The Tech: Why do you think it took so long to reframe the discussion?**

**Supran:** I think it was partly the role of industry, but not entirely. I think it was a failure on multiple fronts by multiple institutions. I think the reason politicians have always gravitated away from it is probably because of the influence of corporate lobbying.

**The Tech: Could you talk about your work on the climate conversation committee?**

**Supran:** The charge was to survey the entire MIT community and figure out the ways to tackle climate change that the community wanted to pursue, and identify other ways that we thought were promising. It began by various forms of surveys to try to get input from the community. But ultimately, it wasn’t like we were restricted to only reflecting the most popular ideas from the community.... Overall, in a sentence, the proposal was for extremely bold and multifaceted action, which is exactly the thing that all of us students are trying to hold the president to right now.

**The Tech: Was there debate within the committee on what to include in the report, debate over the merits of different solutions?**

**Supran:** Sure, yeah, all of them. I basically lost a year of my life. Yeah, it was very intensive, very rigorous, and people brought various different perspectives to the table. I couldn’t go through all of them, but I think in the end the report pretty fairly reflected the actions that as a whole we could all get behind. There was a real desire that at the end of the day, everyone on the committee signed off on the report, and they did.

**The Tech: What were some of the aspects of the report that generated the most debate?**

**Supran:** I’m not sure if I should answer that question, I’m afraid.

**The Tech: Looking forward to the next few weeks, are there more events planned [like Climate Countdown Rally]?**

**Supran:** Well, we’ll have to see... I think there’s a strong confidence in the community that President Reif is going to heed the calls of his own committee and thousands of people in the community and take serious climate action....And I think that if he were to turn a blind eye to this unified call for climate action, I think he could expect to see serious community resistance. What form that will take, we’ll have to find out. You know, I have to be careful about what we’re planning to do over the coming months.... This administration won’t get away with just tokenistic action or just diplomatic platitudes. We’re going to hold them to something higher. As far as I’m concerned, we’re not going anywhere, ever, as long as this crisis keeps growing, which it unfortunately will.

**The Tech: Could you also talk a bit about your own research?**

**Supran:** A lot of what [our group] focus[es] on is using nanostructured materials called quantum

dots. They’re small, soccer-ball-like clusters of semiconducting atoms with a diameter of about five or ten nanometers, just like a soccer ball but about a hundred million times smaller. They have these amazing optical properties where, as you change their size on the nanoscale, they can absorb different colors of sunlight. You can optimize these materials to make solar cells that absorb broad parts of the solar spectrum using ultrathin, ultra-cheap layers. The vision is a next generation of solar cells which are large area and low cost.

**“Even in scientific communities there’s a lack of awareness of the astonishing urgency.”**

What I’m actually working on right now is essentially the physics flipside. With the solar cells you take sunlight in and spit electricity out; with the LEDs that I work on now, you put electricity in and get light out. The solar cells work on the supply side, but on the demand side 21 percent of global electricity goes towards lighting. Right now, an incandescent light bulb is 95 percent inefficient. So when you turn it on, 95 percent of the power just comes out as heat. It’s a better heater than it is a light source. The idea is that if we can make low cost, high-efficiency lighting, we can reduce the usage of electricity.

**The Tech: Have you found challenges communicating your work and climate science to all the different audiences and groups that you’re trying to mobilize?**

**Supran:** It’s surprising that even in scientific communities there’s a lack of awareness of the astonishing urgency of the climate crisis. I didn’t realize it until about 3 or 4 years ago, when divestment reframed it and focused my attention a bit, and I started reading the literature. I don’t think many people realize that we literally only have as many years you can count on your fingers to completely reinvent the global economy....

I think that it can be hard at a technocratic institution like MIT for us to recognize the broader moral and sociopolitical environment in which the science we work on sits. Sometimes I think people can see a graph but not feel its power, and that’s the challenge we really have. How do you turn numbers and facts and figures into moral courage to take action?...I think that maybe there’s a stereotype or that people perceive us as in some way radical, but really I’m just a physicist and a materials scientist with no previous background in environmentalism, politics... I don’t even like politics, you know? ...

But... if I came here to make a difference with my science, then if I know a little more science and I realize both how urgent this problem is and where the real bottlenecks are, I can’t just ignore it and go on working in my lab because it’s more convenient and it’s more comfortable. Well, we can, but it’s basically an abnegation of our responsibility as scientists and a failure of MIT’s mission, which is the betterment of humankind. It’s just trying to inspire that sense of the betterment of humankind, that sense of passion in young people who understandably are really busy and just need to do exams and get through classes and everything.

**The Tech: Why don’t you think more students have that perspective or have that drive to see where the bottleneck is to impact?**

**Supran:** I think that they do. I think it’s partly like I was saying, MIT is a busy, hectic place, and people are just trying to keep their heads above water. But I think the sheer fact that we’ve seen the sup-

port of thousands of people in the community in various open letters and petitions tells me that there is a strong desire to rally together behind our science and our futures. I think that it’s easy to feel isolated or powerless, and I think most of us did...To some degree I wouldn’t fully agree with the premise that people aren’t becoming more passionate because, like we discussed, this whole climate change discussion at MIT arose because of our campaign in just a couple of years, so clearly it’s doing something. We could always be doing more, but we’re busy too, so... [laughs]

**The Tech: What have you learned, or what’s surprised you, going from physics or research to organizing a movement?**

**Supran:** I think it’s how much change you can effect when you put your mind to it...what I’ve come to realize from organizing is essentially the sentiment that Margaret Mead expressed, which is “never doubt that a small group of thoughtful, committed citizens can change the world.”

That’s been the amazing thing, that a small group of students who’ve grown over time have been able to move this mountain that is MIT, and now we sit here on the brink of what I think will be historic MIT climate action, you know, just because of a few Google docs and late-night email threads. That’s kind of amazing to me, and it wasn’t something that I was at all connected with before, it’s been a very quantum step for me...

I think the real big insight that I had... was this insight that the bottleneck is the social and political will. I really wasn’t aware of that impediment before. Without drawing too many generalizations, I think that most people working here in their labs believe that if they build the best solar cell, it will get out there in the world and immediately have an impact, but that’s just not the case. The solar cells we needed ten, twenty years ago were invented thirty years ago and they’re just sitting, waiting to be used. That realization really shook me to my core and made me realize that analytically if we want to solve this problem we have to think about the politics as well as the technology, even if that puts us out of our comfort zone just a little bit.

**The Tech: Have you seen your own research applied in the outside world?**

**Supran:** Well, in small ways. Some of the technologies we work on get turned into products by spin-off companies from my advisor’s group. This is kind of the “reinvent” part that we’re pushing. MIT is a powerhouse for renewable energy research, and no one is saying that we should back off that. In fact what we’re saying is that we should double down on it and really focus on how to take those technologies into the real world, and that means more thinking about deployment, about real world policy. And I think that that’s something very slowly the Institute is moving towards, and I hope it will be part of the announcement in a few weeks.

**The Tech: Do you think you’ll get to a point in your career where you go back to focusing purely on research, or do you think you’ll have a foot in both worlds?**

**Supran:** I don’t think I’ll ever go 100 percent back. I enjoy working at the interface between the two. I think it makes us more powerful, effective organizers when we’re in touch with the science and we understand the technologies we’re talking about. So I enjoy moving between the two. That’s probably what I’m going to be doing next.

*This interview, which was conducted partly in person and partly by email, has been edited for brevity and clarity.*

WEATHER

Brace for a brief blast of cold

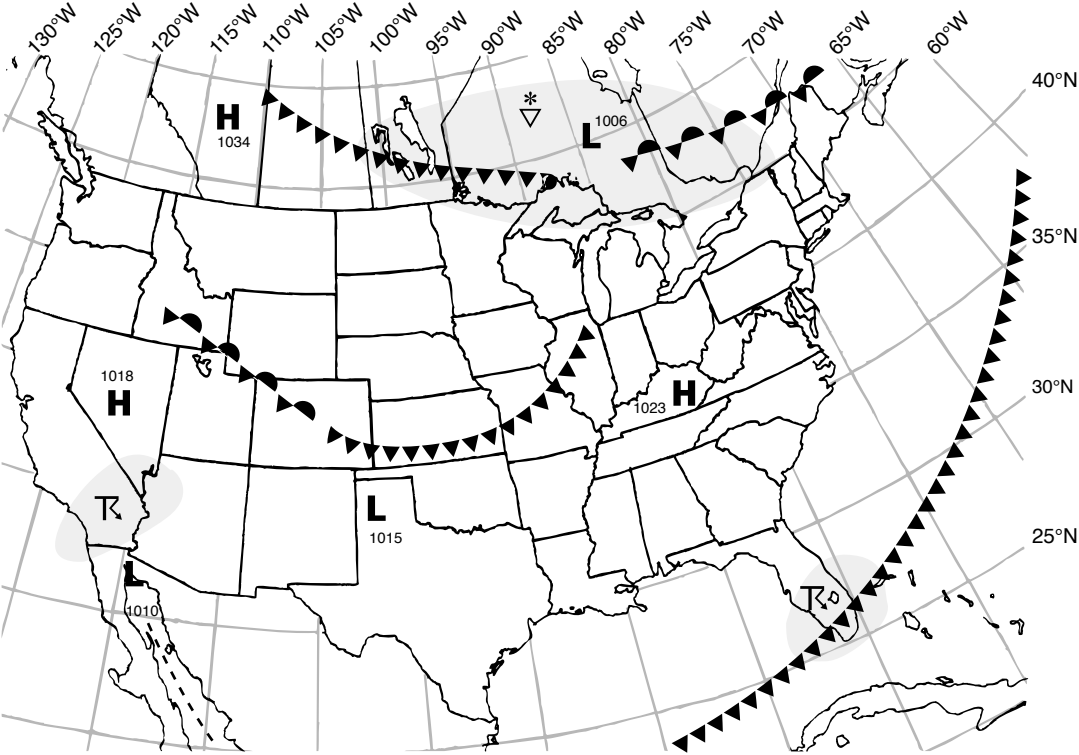
By Vince Agard  
STAFF METEOROLOGIST

The Institute will get its first real dose of chilly fall weather this weekend as an Arctic air mass ushers in some of the coldest temperatures this area has seen in months. The frigid air will begin to make its intrusion after the passage of a cold front tomorrow afternoon. The frontal passage will be accompanied by a shift in the wind from southwesterly to westerly, and an increase in wind speed. After the front moves out, a mass of anomalously cold air will make its way down from Canada through New England

over the course of the weekend. The result will be that by Sunday, low temperatures will be below 40°F (4°C) and the high may not even reach 50°F (10°C). The last times that low and high temperatures that cold were recorded in Boston were May 2 and June 2, respectively. By Sunday night, temperatures could even threaten to break the freezing mark for the first time since April 2. The predicted temperatures are also particularly low compared to the normal high and low of 61°F (16°C) and 46°F (8°C) for this time of year. It will likely take until Tuesday of next week to return to warmer, more seasonable temperatures.

Extended Forecast

**Today:** Sunny, high 62°F (17°C). Winds W at 5-10 mph.  
**Tonight:** Clear, low 50°F (10°C). Winds SW at 5-10 mph.  
**Tomorrow:** Partly cloudy with a slight chance of showers, high 65°F (18°C). Winds W at 10-15 mph, becoming windier in the afternoon and evening.  
**Saturday:** Partly cloudy and breezy, highs in the mid 50s °F (13°C).  
**Sunday:** Partly cloudy, highs around 50°F (10°C).



Situation for Noon Eastern Time, Thursday, October 15, 2015

| Weather Systems        | Weather Fronts     | Precipitation Symbols                  | Other Symbols                                  |
|------------------------|--------------------|--|--|
| <b>H</b> High Pressure | --- Trough         | Snow: *<br>Rain: ∇                     | ☁ Fog  |
| <b>L</b> Low Pressure  | ⌒ Warm Front       | Light: *<br>Moderate: **<br>Heavy: *** | ⚡ Thunderstorm                                 |
| § Hurricane            | ▲▲▲ Cold Front     |  | ∞ Haze   |
|                        | ⌒ Stationary Front |  | Compiled by MIT Meteorology Staff and The Tech |

**Solution to Bossy**  
from page 8

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**Solution to Saturday**  
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MIT Federal Credit Union's nominating committee is currently seeking credit union members who are interested in serving on the Board of Directors. **Three 3-year terms and one 2-year term** on the board will be open for the 2016 election in the spring.

*The application deadline is Friday, November 20, 2015.*

Visit [mitfcu.org/election](http://mitfcu.org/election) to learn more about the MITFCU Board and director responsibilities.

Call: 617-253-2845 | Click: [mitfcu.org](http://mitfcu.org) | Visit: Cambridge: 700 Tech. Sq. (NE48); 84 Mass. Ave. (W20-116)  
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Following opportunity is open to eligible Sophomore and/or Junior students in the School of Engineering and the School of Science

**THE BARRY M. GOLDWATER SCHOLARSHIP**

The Barry M. Goldwater Scholarship and Excellence in Education Program was established by Congress in 1986 to honor Senator Barry M. Goldwater, who served his country for 56 years as a soldier and statesman, including 30 years of service in the U.S. Senate. The purpose of this program is to provide a continuing source of highly qualified scientists, mathematicians, and engineers by awarding scholarships to college students who intend to pursue careers in these fields.

The Goldwater Program provides scholarships of up to \$7500 per academic year. Sophomore scholarship recipients will be eligible for two years of scholarship support. Junior scholarship recipients will be eligible for one year of scholarship support.

If you feel you are qualified for one of these prestigious awards, please discuss this with your academic advisor or your department head.

Nominations must be from YOUR DEPARTMENT and are due at the School of Science or School of Engineering Dean's Office (as appropriate to your major) by

**November 18, 2015**

For further information:  
Contact your academic administrator;  
and/or the following:  
<http://www.act.org/goldwater/> or <http://web.mit.edu/engineering/goldwater.html>

School of Engineering contact: Tanya Abikof, x3-3293, [tabikof@mit.edu](mailto:tabikof@mit.edu)  
School of Science contact: Tom Fisher, x3-8900, [fishe@mit.edu](mailto:fishe@mit.edu)

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**Israeli Dance**

**Beginner's Class!**

Wednesday Oct 21<sup>st</sup>

7:30 - 8:30 pm

followed by open dancing

Lobdell Dining Hall

Free for all students.

Suggested donation \$1 from the public.  
<http://mit.edu/fdc>

**GRAND OPENING**

**Flame Szechuan**

**Hot Pot and Sushi**

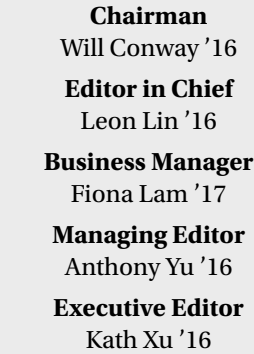
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**By Suri Bandler**  
*STAFF COLUMNIST*

For the past few weeks, I've been glued to my phone. I check it first thing when I wake up in the morning, while I'm eating, while I'm walking down the Infinite, in class, while I'm working on problem sets, and before I go to sleep. But I'm not checking fantasy football stats. I'm checking for reports of another terror attack and word that my little brother is safe.

My brother is currently studying abroad in Israel, and his school is located near the Western Wall in Jerusalem's Old City. Every single day without fail he texts me about another Palestinian terror attack – usually stabbings – directed against civilians. Last week, his teacher was one of the victims, stabbed in the neck for no reason other than being Jewish.

Since Oct. 1, there have been over 30 terror attacks carried out by Palestinian terrorists against Israelis, not including rocket attacks. Here is an abbreviated timeline:

—Oct. 1: Two parents were shot dead in front of their four young children. Fatah, the political party of Palestinian Authority's president Mahmoud Abbas, claimed responsibility for the murders. (This same "moderate" group is responsible for negotiating peace with Israel.)

—Oct. 7: A terrorist stole a gun, broke into a woman's home in Kiryat Gat, and tried to murder the family who lived there. (This happened right near my best friend's school. I frantically messaged her to make sure she was OK, and the hours before she answered were terrifying.)

—Oct. 7: A 25-year-old man was stabbed and badly wounded by a Palestinian terror-

ist in Petach Tikva, where my cousins live. Thankfully, a bystander tackled the terrorist and held him down until the police could reach the scene.

—Oct. 9: In Jerusalem, two American teenagers were beaten and stabbed after taking a wrong turn into an Arab neighborhood.

—Oct. 11: A suicide bomber, with her child in her car, detonated a bomb that wounded her daughter and a police officer.

When someone gets stabbed, you would think that it is clear who the victim is and who the perpetrator is, right? Wrong. To my astonishment, the headlines reporting the recent terror attacks in Israel blur the victims with the attackers, the murdered with the murderers. On Oct. 3, an article published by the BBC was titled “Palestinian shot dead after Jerusalem attack kills two.” The headline obscured who was being attacked and who was the attacker, and it completely failed to mention that the Palestinian died while stabbing members of a family, murdering the father and another man.

Here is an even more outrageous example. *The Independent* published an article titled “Israeli security forces kill boy, 16.” When I first read that headline, I thought that a poor boy was killed without reasonable cause, and images of excessive force and police brutality came to mind. But in reality, that “boy” mentioned in the headline stabbed two elderly Jews on their way home, and the 16-year-old terrorist was killed to stop his stabbing rampage.

Can you imagine the mainstream media reporting on the Sandy Hook school shooting with headlines like “20-year-old shot dead in attack at elementary school”?



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# An eye-catching trip to Neverland

COURTESY OF WARNER BROS. PICTURES

**By Tara Lee**  
ASSOCIATE ARTS EDITOR

Nevertheless, *Pan* brought me back to my elementary school days, when I had

adored the Disney-animated version of *Peter Pan*, aspiring to be a pixie-dust wielding fairy one day. While the film wasn't the ultimate prequel that I was hoping for, it was still a fun, hour-and-a-half escape to Neverland.

# A rousing mixture of old and new at the BSO

a story of its triumph, which Nelsons carried his captive audience through. He has a unique way of structuring the music such that it is not so much the assembly of individual parts, but rather a continuous whole which he gently molds to expose different textures. The resulting experience is profoundly immersive, such that as the piece ended on its final triumphant measures, I released a breath I had not realized I was holding, and with it, tears of joy.

October 8, 2015



# Who is Malala?

Nobel Peace Prize laureate Malala. This 18-year-old girl is known as an activist who speaks up for female education and equality. After learning the importance of education through her parents, who ran several schools in Pakistan, she blogged for the BBC and stressed educational equality to the public. She survived a shooting by the Taliban at the age of 15.

The documentary movie *He Named Me Malala* attempts to reveal the individual at an intimate level through interviews with her and her family. During a press conference, director Davis Guggenheim explained how he hoped to get to know the person Malala: without a camera and purely through conversation.

fabricated and that her stances and persona are unoriginal, the movie remains ambivalent on the complicated issues behind her. Whether Malala's belief is fully independent from her father's, as many ask, is left an enigma.

The briefly revealed, ordinary aspect of Malala (as opposed to her charismatic persona) is not disappointing. It is rather interesting to the public. Her persistence, humbleness, and humor all in one package in the form of her unique three-dimensional identity are a pleasant surprise to the viewer. But the movie fails to dig deeper into how Malala's character and motivation relate to what she has achieved.

la's superficial answers, the movie becomes repetitive and obvious.

During a Q&A session, Guggenheim discussed his vision in making the film. He felt there was something powerful to the shocking and captivating work that Malala has done. Guggenheim said that he was so drawn by Malala's idea of being courageous that he wanted to understand what created Malala's courage and what it took to do this. But I am not sure if Guggenheim has found the answers to his questions and if he has delivered what he discovered.

★★★★★

**Directed by Davis  
Guggenheim**

**Starring Malala Yousafzai,  
Ziauddin Yousafzai, Toor  
Pekai Yousafzai, Khushal  
Khan Yousafzai, Atal Khan  
Yousafzai**

**Rated PG-13**

## Now Playing

Email your pieces to [cl@tech.mit.edu](mailto:cl@tech.mit.edu)!

Solution, page 11

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

## Solution, page 11

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Solution, page 11

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Solution, page 11

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Solution, page 3

1 Ice picker-uppers  
6 Cappuccino froth  
10 Declare firmly  
14 Be wild about  
15 Alternatively  
16 Latvia's capital  
17 Studio release  
18 Blood vessel  
19 Right-angle shapes  
20 Endured an ordeal  
23 Pronoun for a yacht  
24 Chicago airport  
25 Social strata  
29 It's a Wonderful Life  
director  
32 English horn cousin  
33 Witch trials site  
34 Newspaper inserts, often  
37 Worked a busy  
intersection, say  
41 Gobbled up  
42 Shop talk  
43 Buddhist cleric  
44 Inferno poet

**DOWN**

- 1 Highlands hat
- 2 Fragrance
- 3 PBS science series
- 4 Big grin
- 5 Get angry
- 6 Flu symptom
- 7 Designer Cassini
- 8 Sinai's continent
- 9 Diner handout
- 10 Franklin of soul

- 11 Rural retreat
- 12 Rude observer
- 13 Fritter away
- 21 Guys
- 22 Designer Kamali
- 25 Musical closing
- 26 Not too much
- 27 Holding a grudge
- 28 Golf gadget
- 29 Scrounge
- 30 Choral voice
- 31 According to
- 33 Fired off
- 34 Way out there
- 35 FDR's coin
- 36 "Vamoosel!"
- 38 Trolley sound
- 39 Metal in pewter
- 40 St. Pete's state
- 44 Tuckers out
- 45 End of NBC's URL
- 46 Wiggle room
- 47 Lilliputian
- 48 Timex rival
- 49 In first place

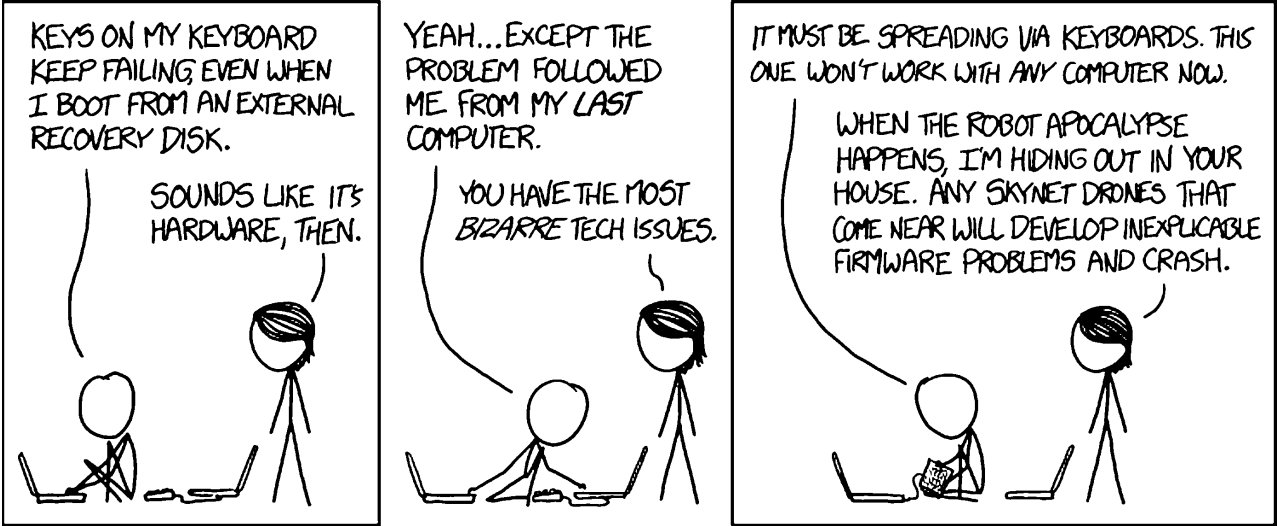
|    |                   |    |                       |
|----|-------------------|----|-----------------------|
| 50 | Entrée to the Web | 55 | Woodpecker's creation |
| 52 | Custard base      | 56 | Has unpaid bills      |
| 53 | "Darn it!"        | 57 | Fence material, maybe |
| 54 | Set aside         | 61 | Sci-fi beings: Abbr.  |





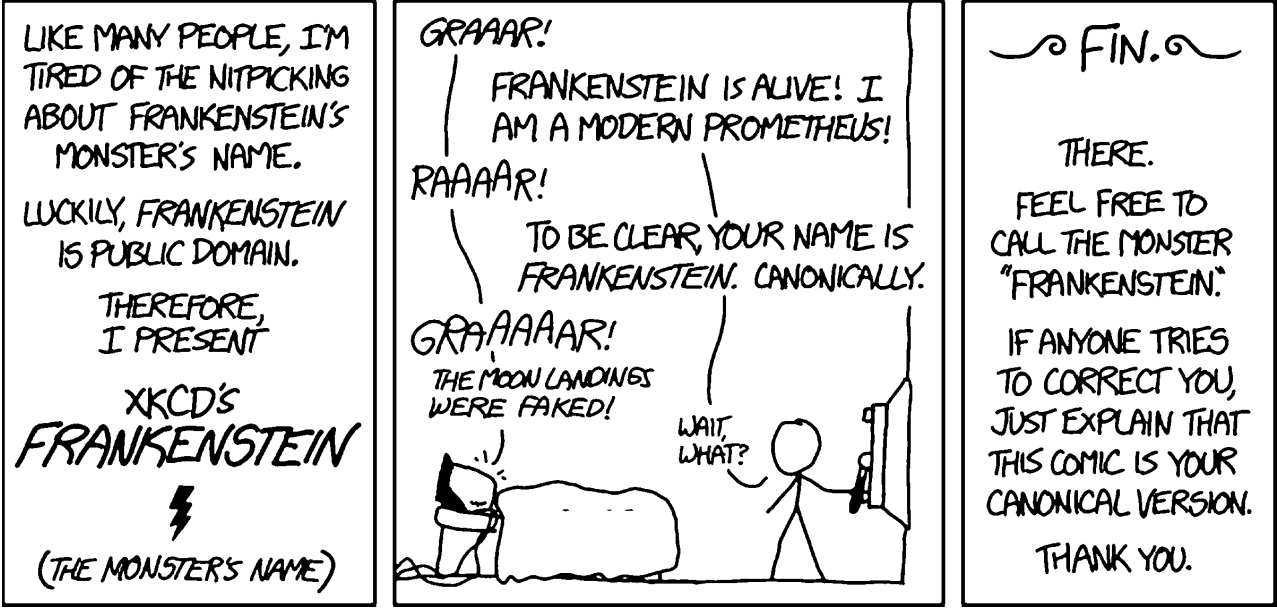
A WEBCOMIC OF ROMANCE,  
SARCASM, MATH, AND LANGUAGE  
by Randall Munroe

[1586] Keyboard Problems



In the future, a group of resistance fighters send me back in time with instructions to find the Skynet prototype and try to upgrade it.

[1589] Frankenstein



"Wait, so in this version is Frankenstein also the doctor's name?" "No, he's just 'The Doctor'."

Saturday Stumper by Brad Wilber

Solution, page 3

ACROSS

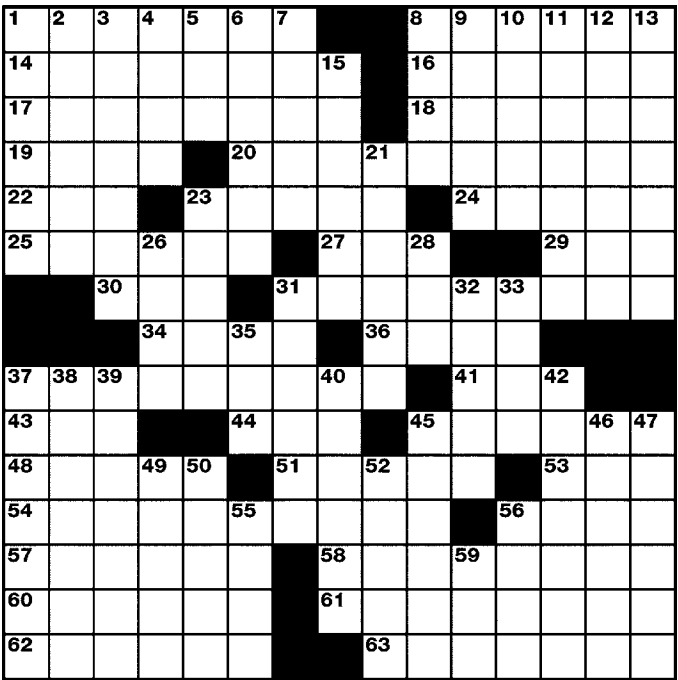
- 1 Reduces the lead of
- 8 Some bridal shop selections
- 14 They're often found in trees
- 16 Moat wall
- 17 Lost manuscript debated by bardolaters
- 18 Plumbing nuisance
- 19 Seatless transport
- 20 Darwin subject
- 22 Bigger picture, briefly
- 23 Mayan calendar symbol
- 24 Wealth
- 25 1968 Michener travelogue
- 27 Game or place with flushes
- 29 Amman-to-Damascus dir.
- 30 Prague premiere of 1921
- 31 One creating menus
- 34 Uneasy feeling
- 36 Survey unabashedly
- 37 Be conspicuous
- 41 Goldenrod backdrop
- 43 Professional org. that publishes What Would Florence Do?
- 44 Chick hatched by its father

- 45 Food processor
- 48 Bunk
- 51 61 Across character
- 53 1970s dollar-coin honoree, for short
- 54 Destiny shapers, to some
- 56 Push
- 57 Nautical direction
- 58 Needle holders
- 60 1995 SNL departure
- 61 Franchise turning 50 next year
- 62 Role for Brando, Burton and Burr
- 63 Word from the Greek for "trance"

DOWN

- 1 What hip lifts work
- 2 It bought CrashPadder in 2012
- 3 Metered dose delivery system
- 4 Approaching
- 5 Ghost guy
- 6 Crazy Horse or Red Cloud
- 7 Strapped
- 8 \_\_\_ case

- 9 What about 23% of the world believes in
- 10 Perspicacious
- 11 Smile descriptor
- 12 Site of Sergeant York's heroics
- 13 Milton's "sage and serious Poet"
- 15 Flour, for instance
- 21 Son of Ares
- 23 Postal Service parcel measure
- 26 Torpedo
- 28 Small-screen gasp
- 31 Hex
- 32 Soften
- 33 Not under the table
- 35 Hard part of physics
- 37 Eugene Onegin soprano
- 38 Still out
- 39 Lock protection
- 40 Widely accepted medieval money
- 42 What Hollande is co-prince of
- 45 Town around 60 miles from Bordeaux
- 46 Singer named for the



- Count of Monte Cristo
- 47 Adage omen derived from Matthew 16
- 49 Nome di sei papi
- 50 Fortune's "Most Innovative Company," 1995-2000
- 52 Its clock has read 10:30

- since 2013
- 55 Keep from
- 56 Its 1994 round covered intellectual property for the first time
- 59 FL billboards display their current wait times

# COD simplifies sexual assault adjudication process

*New peer-to-peer programs expected to increase sexual awareness on MIT's campus*

**Sexual assault**, from Page 1

cates increased awareness about what constitutes misconduct, and better knowledge about where to go for help. We also think more students now understand they have access to resources where they can share personal, sensitive information and get the support they need.”

**Changes at the Committee on Discipline**

The Committee on Discipline adjudicates complaints against students and student organizations and has the power to suspend or expel students based on hearings. Seventeen members, composed of a mix of undergraduate students, graduate students, faculty, and staff, sit on the committee. While these complaints include cases of sexual misconduct, relatively few of the students who talk to the Title IX Office or VPR choose to ultimately go through the COD process.

In an interview with *The Tech*, Director of Student Citizenship Kevin Kraft noted that he recognizes this as an issue. To help mitigate this overall reluctance to report, Kraft has led efforts to streamline the COD process and make it easier for students to report and go through a sexual misconduct case. By the end of this month, the COD will be implementing an entirely new process for how it will handle sexual misconduct cases.

“In the old process, what you would have to do is sort of prepare your whole case yourself and present your whole case yourself,” Kraft said. “Now, with the addition of the Title IX Office and Title IX investigators, we’ve professionalized that so that instead of kind of coming to this adversarial meeting, where

your complainant says one side of the story, and the respondent says another side of the story, we’ve had the case professionally investigated already in a much lower-stress environment.”

Students who submit sexual misconduct complaints will have the opportunity to meet one-on-one with a Title IX investigator who then will help the student parse out the important details in the case.

Another important change will be the decrease in time it takes to go from the initial complaint through the investigation to the final resolution.

**An important change will be the decrease in time it takes to go from the initial complaint to the final resolution.**

“In the old process, you’d have to get 10 business days to write your statement and you’d have to get 5 business days before the hearing and all these things that made it take a very long time,” Kraft said. “But because this is all an interactive process during the investigation — you’re seeing evidence as it’s coming in, you’re having opportunities to comment on what the other person is saying, and that sort of thing — we’ve been able to streamline a lot of that and that’s been helpful.”

A final important improvement is the decrease in intimidation that sexual misconduct complainants will experience during the actual process itself.

If the two parties do not dispute the Title IX investigator’s report rec-

ommendation, then the complainant will not need to come before the COD at all. If a dispute arises, however, the complainant will come before a panel. Instead of placing seven members of the COD on the panel, however, only three will be there in the new process. These three members will have received extensive and specialized training in how to handle sexual misconduct cases.

For the academic year 2015-2016, a special subcommittee of six has been formed to receive this training. These are: Prof. Suzanne Flynn, Prof. Halston Taylor, Prof. Andrew Whittle PhD ’87, Blanche Staton, Julie Rothhaar-Sanders, and Brian Canavan. Any hearing panel will be composed of three of these members, with at least one faculty member and one staff member. No students will be on the sexual misconduct subcommittee.

“This is something that requires a lot of specialization and a lot of expertise,” Kraft said. “We don’t want just any person, any random faculty, student, or staff member getting on these committees and making whatever decision.”

In addition, unlike in the old process, the complainant and the respondent will be kept in separate rooms and allowed to communicate through technology and video feeds.

According to the most recent COD Annual Report to the Chair of the Faculty and President of the Institute, the number of COD sexual misconduct cases increased from four to nine between the academic years of 2013-2014 and 2014-2015. However, there was a decrease in the number of expulsions (1 to 0) and suspensions/degree deferrals (7 to 5) within the same time frame.

**Peer-to-peer programs**

Last November, MIT’s student-run “It’s On Us” campaign kicked off. MIT’s chapter is part of a national initiative to promote sexual assault awareness on college campuses. This fall, a new program for undergraduates called Pleasure (Peers Leading Education About Sexuality & Speaking Up for Relationship Empowerment), and a peer ambassador program for the graduate student community have launched.

According to Kate McCarthy, program director of VPR, Pleasure was created in response to comments that students submitted as part of the CASA survey.

“Students said over and over again they needed to learn foundational skills in order to have healthy, consensual sexual encounters,” McCarthy said. “The Chancellor recognized the importance of this input and added staffing to Violence Prevention & Response (VPR) to support the creation and implementation of a peer education program.”

Vienna Rothberg currently heads VPR’s Pleasure program. Rothberg started recruiting in the spring shortly after being hired, forming a group of undergraduate and graduate students to serve on an advisory board. Since then, eleven students have been trained as peer educators. Pleasure launched in Random Hall this month.

**Barnhart expects that a follow-up survey will be sent out in the 2016-2017 academic year.**

Lucia Lam ’17, one of the peer educators, said she joined Pleasure over the summer on a whim, and decided to stay because she realized it was a topic she cared about. Pleasure consists of a series of student

seminars with activities ranging from discussion to role-playing.

“We want to normalize discussions about sex and relationships so that people don’t find these conversations awkward or giggle-worthy, and to encourage people to have these conversations with each other,” she told *The Tech*. “We want people to have fun in their relationships, whatever form they may be, and to respect each other and be happy.”

Attendance is an issue, but she adds that “the feedback has been fairly positive from those who have shown up, and people seem excited for the next set of presentations that we’ll be doing in November.”

To help target the graduate community, VPR has created a peer ambassador program that is expected to launch in November in Eastgate and Westgate, MIT’s two graduate student family residences. Program head Amanda Hankins formed an advisory board over the summer and has been working with the executive teams at Eastgate and Westgate along with a few of the graduate courses to launch the peer ambassador program.

Peer ambassadors will include graduate students as well as spouses and partners. The program is partially supported by a \$10,000 grant from the Avon Foundation. According to McCarthy, there will be a display

posted on ambassadors’ doors or labs that demonstrates that they’re a person someone can talk to.

“What we know about peer-to-

**Sexual assault**, Page 11

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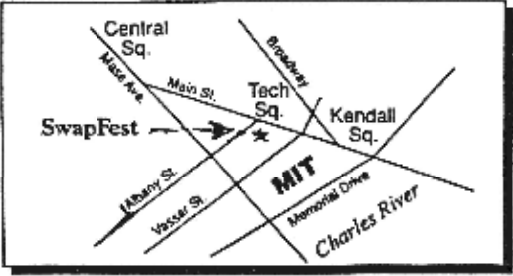
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Sexual assault, from Page 10

peer programming is that it's really well-received, not only for the people who are receiving it, but really a lot for the peers as well," said McCarthy. "It really helps them sort of grow and become leaders in a topic that maybe they weren't before they started. We're really excited to see what happens."

Barnhart added: "It's a fantastic way to expand our reach. Of course, we have a limited budget. We can't hire as many people as we would love to. By tapping into the students, it really amplifies the voice."

Presidential Committee on Sexual Misconduct

According to Barnhart, a presidential committee on sexual misconduct will be formed by the end

of this month, taking the place of the Sexual Assault Education and Prevention Task Force. This initiative comes from a recommendation made by McCarthy and Rankin on behalf of the task force earlier this year. According to the Chancellor's Office, the standing committee is expected to "spearhead and assess [MIT's] responses to sexual assault for the long-term."

Prof. David Singer was appointed chair of the committee earlier this month. The ultimate makeup of the committee will include students, staff, and other faculty members.

"The idea is that this committee will be responsible for ensuring that we act, and kind of take that roadmap and deliver on it, and also further assess what's happening, develop new strategies of things we

should be trying," Barnhart said.

**Next steps**

Barnhart expects that a follow-up survey will be sent out in the 2016-2017 academic year. For this survey, she said that questions will be added or changed to better pinpoint where sexual assaults tend to occur on campus, something that was notably missing from the first CASA survey.

Over four-fifths of the undergraduate respondents to the CASA survey who had experienced unwanted sexual behavior said it had occurred "on campus," but this term was very loosely defined and included dormitories as well as fraternities, sororities, and independent living groups. In terms of where the attacks occurred among the living groups themselves, the

survey made no distinction.

"If we have concern that there's a particular community, be it a fraternity or another living community or a club or a group or whatever it is, then part of what the Title IX Office is trying to do is look at the holistic picture of MIT and figure out where are these areas where we have an opportunity to go in and do some prevention and education," Rankin said. "We have done that a number of times."

"Maybe the most powerful impact we can have is by tapping into the resources that are our students," Barnhart said. "We know from experience that students definitely rely on each other and learn from each other and so we're using that dynamic of our community to strengthen our impact, our educational impact."

Medical, from Page 1

October 2014 when William Kettyle announced he would step down from the post.

Kettyle, Stuopis's predecessor, has worked at MIT Medical since 1993.

"Under his leadership, MIT Medical expanded its services to provide care for the entire MIT community, extended its connection to students, and increased community involvement in preventive care," Ruiz wrote in an email when Kettyle first announced that he would step down.

—William Navarre

Solution to Bernie  
from page 8

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| 7 | 2 | 4 | 1 | 9 | 6 | 8 | 3 | 5 |
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| 8 | 9 | 1 | 7 | 2 | 3 | 6 | 5 | 4 |
| 3 | 5 | 6 | 8 | 4 | 9 | 2 | 7 | 1 |

Solution to Hillary  
from page 8

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| 6 | 5 | 4 | 1 | 3 | 2 |
| 2 | 1 | 6 | 3 | 5 | 4 |
| 1 | 6 | 5 | 2 | 4 | 3 |
| 4 | 3 | 2 | 5 | 1 | 6 |
| 3 | 2 | 1 | 4 | 6 | 5 |
| 5 | 4 | 3 | 6 | 2 | 1 |


Solution to O'Malley  
from page 8

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 5 | 3 | 2 | 7 | 1 | 9 | 6 | 8 | 4 |
| 4 | 9 | 1 | 5 | 6 | 8 | 3 | 2 | 7 |
| 8 | 6 | 7 | 4 | 3 | 2 | 9 | 1 | 5 |
| 3 | 1 | 6 | 9 | 7 | 5 | 8 | 4 | 2 |
| 2 | 4 | 5 | 3 | 8 | 1 | 7 | 9 | 6 |
| 9 | 7 | 8 | 6 | 2 | 4 | 1 | 5 | 3 |
| 1 | 5 | 3 | 8 | 4 | 6 | 2 | 7 | 9 |
| 6 | 2 | 4 | 1 | 9 | 7 | 5 | 3 | 8 |
| 7 | 8 | 9 | 2 | 5 | 3 | 4 | 6 | 1 |

Solution to Chafee  
from page 8

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 6 | 3 | 1 | 4 | 5 | 2 |
| 3 | 6 | 4 | 1 | 2 | 5 |
| 1 | 4 | 2 | 5 | 6 | 3 |
| 5 | 2 | 6 | 3 | 4 | 1 |
| 4 | 1 | 5 | 2 | 3 | 6 |
| 2 | 5 | 3 | 6 | 1 | 4 |


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Overall, the Bruins should be a competitive outfit this season, but ultimately, down the stretch, they might not yet be ready for a place in the spotlight. Expect a season of ups and downs, most likely culminating in a fifth-place finish in the Atlantic Conference.